

Title (en)

RECOVERY OF POLYPHOSPHAZENE POLYACIDS OR ACID SALTS THEREOF

Title (de)

WIEDERGEWINNUNG VON POLYPHOSPHAZEN-POLYSÄUREN ODER SAUREN SALZEN DAVON

Title (fr)

RECUPERATION DE POLYACIDES DE POLYPHOSPHAZENE OU DES SELS ACIDES ASSOCIES

Publication

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Application

EP 98906698 A 19980225

Priority

- US 9803658 W 19980225
- US 81072897 A 19970304

Abstract (en)

[origin: US5814704A] A process for recovering a polyphosphazene polyacid or acid salt obtained by hydrolyzing a polyphosphazene having at least one ester moiety present in at least one substituent group. The polyphosphazene having at least one ester moiety present in at least one substituent group is hydrolyzed with a base in an organic solvent in the presence of water. The water is present in an amount effective to induce the agglomeration of particles of the synthesized polyphosphazene polyacid or acid salt, which enhances the separation of the polyphosphazene polyacid or acid salt from a polymer-free liquid organic phase. The polymer-free liquid organic phase then is separated from the polyphosphazene acid or acid salt, whereby the polyphosphazene acid or acid salt is recovered.

IPC 1-7

C08L 43/02

IPC 8 full level

C08G 79/02 (2006.01)

CPC (source: EP US)

C08G 79/025 (2013.01 - EP US)

Citation (search report)

- [A] ALLCOCK H R ET AL: "CONTROLLED FORMATION OF CARBOXYLIC ACID GROUPS AT POLYPHOSPHAZENE SURFACES: OXIDATIVE AND HYDROLYTIC ROUTES", CHEMISTRY OF MATERIALS,US,AMERICAN CHEMICAL SOCIETY, WASHINGTON, vol. 8, no. 12, 1 December 1996 (1996-12-01), pages 2730 - 2738, XP000683959, ISSN: 0897-4756
- [A] ALLCOCK H R: "CROSS-LINKING REACTIONS FOR THE CONVERSION OF POLYPHOSPHAZENES INTO USEFUL MATERIALS", CHEMISTRY OF MATERIALS,US,AMERICAN CHEMICAL SOCIETY, WASHINGTON, vol. 6, no. 9, 1 September 1994 (1994-09-01), pages 1476 - 1491, XP000479839, ISSN: 0897-4756

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